

# Sr. Project Engineer - Medical Product & Mechatronics Design



Helbling Precision Engineering, Inc. (Cambridge, MA & San Diego, CA)

## About This Role

Helbling USA is an engineering consulting firm with expertise in **medical devices, laboratory instruments, mechatronics** - and most importantly, **innovation**. We're looking for a **Sr. Project Engineer** to join our team of talented engineers. As a Sr. Engineer, you will lead and execute projects transforming ideas into technically-substantiated products (and everything in between). The ideal candidate is a well-rounded team player who thrives in a dynamic environment - we regularly shift gears between ideation, theoretical analysis, detailed design (e.g. CAD), prototyping/building, testing, debugging, and, crucially, communicating that work with our clients. An ideal candidate also shares our passion for creativity and technology and commitment to high-quality work.

## Role Responsibilities

- Lead team members and actively participate in developing innovative medical devices, lab systems, robotics and/or automation solutions, with a focus on mechanical design. Maintain a high standard of work while ensuring alignment between project scope, budget, and timeline.
- Own development and refinement of mechanisms and/or systems (e.g. detailed design of plastic/metal parts, selection of motors, sensors, etc.) in CAD
- Apply fundamental engineering/physics calculations, tolerance analysis, GD&T, DFMEA, finite element analysis, etc. to support concept evaluations, conclusions, and recommendations
- Mentor and support more junior team members, and collaborate with other active projects, e.g. by participating in brainstorms and design reviews
- Source, build, and test prototypes and related fixtures, generating key documentation as needed (2D drawings, test protocols, test reports)
- Manage preparation and presentation of project reports, reviews, and weekly client updates

## Required Qualifications

- BS in Mechanical Engineering and 7-10+ years of related engineering full-time professional experience or equivalent (Advanced technical degree preferred)
- Eligible to work in the US without sponsorship (unfortunately we cannot sponsor H1B visa)

## Additional Qualifications

- 3+ years of experience in product development (especially medical devices/systems), robotics, and/or machine design, a strong plus
- 2+ years of project management experience, a strong plus
- Deep understanding of fundamental engineering mechanisms and principles
- Expertise in multiple of the following a strong plus: physical system modelling, electromechanics, programming (MATLAB, LabView, microcontrollers), major production processes (injection molding, stamping), GD&T
- Proven experience creating robust CAD parts/complex assemblies (SolidWorks strongly preferred)
- Excellent communication skills (e.g. ability to explain technical issues to a non-technical audience)
- Excited to work for a company that values diversity, equity, and inclusion

## Helbling Offers

- Varied and exciting projects in MedTech and Robotics with motivated and collaborative teammates
- Opportunity to influence our growing US branches and connection to Helbling offices in Europe
- Respect for work-life balance
- Competitive salary
- PTO, sick time, and public holidays
- Insurance coverage (medical, dental, vision, life, parental leave), 401K with matching

To apply for this role, please submit a resume and brief cover letter explaining both your personal and professional fit to [careers@helbling-inc.com](mailto:careers@helbling-inc.com). Please also specify your interest in either our Cambridge or San Diego office (or both).